

PENDING CLAIMS

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1. (Unamended) A method for representing an application programming interface (API) definition for an object-oriented library, said method comprising:
creating a list of public elements in said library, each of said public elements including a
sublist of all public related elements for the element; and
storing said list.
 2. (Unamended) The method of claim 1 wherein
said library is a Java™ package;
said public elements comprise classes and interfaces; and
said public related elements comprise public superclasses and public superinterfaces of said
classes and said interfaces.
 3. (Amended Once) A method for representing an application programming interface (API) definition for an object-oriented library, said method comprising:
creating a public list including all public classes and interfaces in defined in said library,
said public list including a class sublist for each of said public classes, each said class
sublist including all direct and indirect superclasses of a class; and
storing said list.
 4. (Unamended) The method of claim 3 wherein said library is a Java™ package.

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5. (Unamended) A method for determining a program hierarchy, said method comprising:
receiving an application programming interface (API) definition file for an object-oriented library, said API definition file including a list of public elements in said library, each of said public elements including a sublist of all public related elements for the element;
and
indicating a first public element is a direct parent of a second public element when said first public element is represented in the sublist for said second public element and said first public element is not represented in the sublist for any other public element listed in the sublist for said second public element.
6. (Unamended) The method of claim 5 wherein
said library is a Java™ package;
said public elements comprise classes and interfaces; and
said public related elements comprise public superclasses and public superinterfaces of said classes and said interfaces.
7. (Unamended) The method of claim 5, further comprising
comparing a first program hierarchy reconstructed from a first API definition file with a second program hierarchy reconstructed from a second API definition file; and
indicating an error when said first program hierarchy is inconsistent with said second program hierarchy.

8. (Unamended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method to represent an application programming interface (API) definition for an object-oriented library, the method comprising:
- creating a list of public elements in said library, each of said public elements including a sublist of all public related elements for the element; and
- storing said list.
9. (Amended Once) The program storage device of claim 8 wherein
- said library is a Java™ package;
- said public elements comprise classes and interfaces; and
- said public related elements comprise public superclasses and public superinterfaces of said classes and said interfaces.
10. (Amended Once) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method to represent an application programming interface (API) definition for an object-oriented library, the method comprising:
- creating a public list including all public classes and interfaces in defined in said library,
- said public list including a class sublist for each of said public classes, each said class sublist including all direct and indirect superclasses of a class; and
- storing said list.

11. (Amended Once) The program storage device of claim 10 wherein said library is a Java™ package.
12. (Unamended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method to determine a program hierarchy, the method comprising:
receiving an application programming interface (API) definition file for an object-oriented library, said API definition file including a list of public elements in said library, each of said public elements including a sublist of all public related elements for the element;
and
indicating a first public element is a direct parent of a second public element when said first public element is represented in the sublist for said second public element and said first public element is not represented in the sublist for any other public element listed in the sublist for said second public element.
13. (Amended Once) The program storage device of claim 12 wherein
said library is a Java™ package;
said public elements comprise classes and interfaces; and
said public related elements comprise public superclasses and public superinterfaces of said classes and said interfaces.
14. (Amended Once) The program storage device of claim 12 wherein said method further comprises:

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comparing a first program hierarchy reconstructed from a first API definition file with a second program hierarchy reconstructed from a second API definition file; and indicating an error when said first program hierarchy is inconsistent with said second program hierarchy.

15. (New) An apparatus for representing an application programming interface (API) definition for an object-oriented library, said apparatus comprising:

means for creating a list of public elements in said library, each of said public elements including a sublist of all public related elements for the element; and means for storing said list.

16. (New) The apparatus of claim 15 wherein

said library is a Java™ package;

said public elements comprise classes and interfaces; and

said public related elements comprise public superclasses and public superinterfaces of said classes and said interfaces.

17. (New) An apparatus for representing an application programming interface (API) definition for an object-oriented library, said apparatus comprising:

means for creating a public list including all public classes and interfaces in defined in said

library, said public list including a class sublist for each of said public classes, each said

class sublist including all direct and indirect superclasses of a class; and

means for storing said list.

18. (New) The apparatus of claim 17 wherein said library is a Java™ package.
19. (New) An apparatus for determining a program hierarchy, said apparatus comprising:
means for receiving an application programming interface (API) definition file for an object-oriented library, said API definition file including a list of public elements in said library, each of said public elements including a sublist of all public related elements for the element; and
means for indicating a first public element is a direct parent of a second public element when said first public element is represented in the sublist for said second public element and said first public element is not represented in the sublist for any other public element listed in the sublist for said second public element.
20. (New) The apparatus of claim 19 wherein
said library is a Java™ package;
said public elements comprise classes and interfaces; and
said public related elements comprise public superclasses and public superinterfaces of said classes and said interfaces.
21. (New) The apparatus of claim 19, further comprising
means for comparing a first program hierarchy reconstructed from a first API definition file with a second program hierarchy reconstructed from a second API definition file; and

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means for indicating an error when said first program hierarchy is inconsistent with said
second program hierarchy.
